

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A camera comprising:

an image-taking optical system which includes a focusing lens and a stop;

a motor which drives the focusing lens;

a controller which controls the motor such that the focusing lens is stopped at a target position by performing deceleration control in accordance with a predetermined deceleration control pattern; and

a state detector which detects ~~a state~~ one of a focal length and a set value of the stop of the image-taking optical system,

Wherein the controller changes the deceleration control pattern in accordance with ~~the state~~ one of the focal length and the set value of the stop detected by the state detector; and

the controller sets the deceleration control pattern in which, when the focal length of the image-taking optical system is on a wide-angle side closer to a wide-angle end than a predetermined focal length, the motor is decelerated for stopping at a deceleration rate larger than a deceleration rate when the focal length is on a telephoto side, after a remaining driving amount becomes less than a predetermined amount.

2. (Cancelled)

3. (Cancelled)
4. (Cancelled)
5. (Cancelled)
6. (Currently Amended) The camera according to claim [[5]]1, wherein the controller sets the deceleration control pattern in which, when the set value of the stop is on a narrowed side relative to a predetermined stop value, the motor is decelerated for stopping at a deceleration rate smaller than a deceleration rate when the set value of the stop is on an opened side, until a remaining driving amount becomes a predetermined amount.
7. (Currently Amended) The camera according to claim [[5]]1, wherein the controller sets the deceleration control pattern in which, when the set value of the stop is on a narrowed side relative to a predetermined stop value, the motor is decelerated for stopping at a deceleration rate larger than a deceleration rate when the set value of the stop is on an opened side, after a remaining driving amount becomes less than a predetermined amount.
8. (Currently Amended) A camera comprising:
  - an image-taking optical system which includes a focusing lens and a stop;
  - a motor which drives the focusing lens;

a position detector which detects a position of the focusing lens;

a controller which controls the motor such that the focusing lens is stopped at a target position by performing deceleration control from the time when a difference between the target position and the position detected by the position detector is equal to or smaller than a predetermined amount; and

a state detector which detects ~~a state~~ one of a focal length, and a set value of the stop of the image-taking optical system,

wherein the controller changes the predetermined amount in accordance with ~~the state~~ one of the focal length and the set value of the stop detected by the state detector.

9. (Cancelled)

10. (Currently Amended) The camera according to claim ~~[[9]]~~ 8, wherein the controller sets the predetermined amount to a smaller amount when a focal length of the image-taking optical system is on a wide-angle side closer to a wide-angle end than a predetermined focal length as compared with an amount set when the focal length is on a telephoto side.

11. (Cancelled)

12. (Currently Amended) The camera' according to claim ~~[[11]]~~ 8, wherein the controller sets the predetermined amount to a smaller amount when the set value of the stop is on a

narrowed side relative to a predetermined stop value as compared with an amount set when the set value of the stop is on an opened side.

13. (Currently Amended) A lens apparatus comprising:

an image-taking optical system which includes a focusing lens and a stop;

a motor which drives the focusing lens;

a controller which controls the motor such that the focusing lens is stopped at a target position by performing deceleration control in accordance with a predetermined deceleration control pattern; and

a state detector which detects ~~the state~~ one of a focal length and a set value of the stop of the image-taking optical system,

wherein the controller changes the deceleration control pattern in accordance with one of the focal length and the set value of the stop detected by the state detector.

14. (Cancelled)

15. (Cancelled)

16. (Currently Amended) The lens apparatus according to claim ~~[[14]]~~ 13, wherein the controller sets the deceleration control pattern in which, when the focal length of the image-taking optical system is on a wide-angle side closer to a wide-angle end than a predetermined focal length, the motor is decelerated for stopping at a deceleration rate

larger than a deceleration rate when the focal length is on a telephoto side, after a remaining driving amount becomes less than a predetermined amount.

17. (Cancelled)

18. (Currently Amended) The lens apparatus according to claim ~~[[17]]~~ 13, wherein the controller sets the deceleration control pattern in which, when the set value of the stop is on a narrowed side relative to a predetermined stop value, the motor is decelerated for stopping at a deceleration rate smaller than a deceleration rate when the set value of the stop is on an opened side, until a remaining driving amount becomes a predetermined amount.

19. (Currently Amended) The lens apparatus according to claim ~~[[17]]~~ 13, wherein the controller sets the deceleration control pattern in which, when the set value of the stop is on a narrowed side relative to a predetermined stop value, the motor is decelerated for stopping at a deceleration rate larger than a deceleration rate when the set value of the stop is on an opened side, after a remaining driving amount becomes less than a predetermined amount.

20. (Currently Amended) A lens apparatus comprising:

- an image-taking optical system which includes a focusing lens and a stop;
- a motor which drives the focusing lens;
- a position detector which detects a position of the focusing lens;

a controller which controls the motor such that the focusing lens is stopped at a target position by performing deceleration control from the time when a difference between the target position and the position detected by the position detector is equal to or smaller than a predetermined amount; and

a state detector which detects a state one of a focal length and a set value of the stop of the image-taking optical system,

wherein the controller changes the predetermined amount in accordance with one of the focal length and the set value of the stop detected by the state detector.

21. (Cancelled)
22. (Currently Amended) The lens apparatus according to claim ~~[[21]]~~ 20, wherein the controller sets the predetermined amount to a smaller amount when a focal length of the image-taking optical system is on a wide-angle side closer to a wide-angle end than a predetermined focal length as compared with an amount set when the focal length is on a telephoto side.
23. (Cancelled)
24. (Currently Amended) The lens apparatus according to claim ~~[[23]]~~ 20, wherein the controller sets the predetermined amount to a smaller amount when the set value of the

stop is on a narrowed side relative to a predetermined stop value as compared with an amount set when the set value of the stop is on an opened side.

25. (Original) A camera system comprising:

the lens apparatus according to claim 13;  
and a camera on which the lens apparatus is mountable.

26. (Original) A camera system comprising:

the lens apparatus according to claim 20; and  
a camera on which the lens apparatus is mountable.

27. (New) A camera comprising:

an image-taking optical system which includes a focusing lens;  
a motor which drives the focusing lens;  
a controller which controls the motor such that the focusing lens is stopped  
at a target position by performing deceleration control in accordance with a  
deceleration pattern selected from a plurality of deceleration patterns which  
includes different deceleration rate; and  
a state detector which detects a focal length of the image-taking optical  
system,  
wherein the controller select the deceleration pattern based on the focal  
length detected by the state detector.

28. (New) A camera comprising:

an image-taking optical system which includes a focusing lens and a stop;

a motor which drives the focusing lens;

a controller which controls the motor such that the focusing lens is stopped at a target position by performing deceleration control in accordance with a deceleration pattern selected from a plurality of deceleration patterns which includes different deceleration rate; and

a state detector which detects a state of the stop of the image-taking optical system,

wherein the controller select the deceleration pattern based on the state of the stop detected by the state detector.